

# ABSTRACT

## Abstract

An interferometric measuring device ~~(1)~~ for detecting the shape of rough surfaces is described. <sup>A</sup> ~~A~~ spatially coherent beam gun unit <sup>that</sup> ~~being~~ provided, ~~which~~ emits a short time coherent and broad-band beam. <sup>the</sup> ~~the~~ device ~~being~~ separated into a section containing the components of a modulation interferometer ~~(2)~~ and the components of a measuring probe <sup>The</sup> ~~(3)~~ <sup>is</sup> ~~and the~~ measuring probe ~~(3)~~ <sup>is</sup> being coupled to the modulation interferometer ~~(2)~~ via an optical fiber arrangement <sup>and</sup> ~~(6)~~ <sup>is</sup> being used remotely from the modulation interferometer ~~(2)~~ (Figure).